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GAINS 'PHENOMENAL'

# S. Looks to Soviet Way. Race for More Scientists

By ALLEN SHOENFIELD Staff Correspondent of The Detroit News nomenal."

EAST ORANGE, N.J., Nov. 2

-America, with all its technical

#### PUPILS REWARDED

Dr. Herbert Scoville Jr., asknow-how, may yet have to bot-sistant director of the U.S. Cenrow heavily from Russia's bag of trai Intelligence agency, appediagogical tricks to produce the duction of Intelligence agency. duction of trained brainpower to three factors: control of the section urgently requires.

This was conceded today by frent by the state; rewards of educators, industrialists and government representative participating in an institute called by the Thomas Alva Edison Foundation to plan "Strengthening Science Education for Youth and Industry."

duction of trained brainpower to three factors: control of the section curriculum and enroll-fred to youngsters preparing for careers in science; and the vast upgrading of the teaching profession both socially and economition to plan "Strengthening Science Education for Youth and Industry." duction of trained brainpower to

cation has been keyed to pro-Highlight of the conference duce scientists. Three-quarters of was the panel discussion of the Russian educational system the 10th grade. All are exposed whose growth during the last 20 early to the basic sciences with-

cream of the crop is funneled into the universities for an in as technicians.

"Scholarships are given to al who can qualify," Scoville said "These are graduated in amount depending on the course of study selected and on how badly spe cialists in a particular field ma be required. In the Unite States, we feel that all must be treated alike. Not only is fuition free in Russia but students re ceive a wage comparable to tha paid the average worker in in dustry.

### 60 PCT. TEACH

"Sixty per cent of university graduates go into teaching. Thei training has been given the high est priority. Much honor and social prestige attach to the pro fession.

iession.

junior professor receives
4,000 rubles a month or about
10 times the amount pald an indistrial worker.

Le universities and the ped
agolical institutes offer degree
in eath education and science
United the United States, where
a trained teacher may chance of
choose to instruct in science choise to instruct in science of ten without sufficient background, Russia demands a professional scientist who is assigned to teach.

"Moreover, teachers are not

allowed to stagnate. They are required to take a competitive examination every five years to demonstrate their proficiency-and to hold their jobs."

Participants in the panel discussion, who have studied the Soviet school system recently, reported that release from the straffiacket of Stalinism has intradiced a new note of informality in classrooms. For the first time students are encouraged to take nothing for granted, to raise questions, to argue with their instructors.

## HALF ARE WOMEN

Argument was said to be assured by the fact that about one-

Approved For Release 2001/08/20 wolf Release 2001/08/20 half of all medical products are big different and approved for Release 2001/08/20 half of all medical products. The question was raised about

Dr. John Turkevich, research professor of chemistry at branceton University, replied that they were "among the best in the world."

He said, "there is a text on chemistry which is superb. i would not think of lecturing (a) my class of 300 students without first reading the appropriate! napter in that book.

"Russia is flooded with excellent, inexpensive texts. In this tensive five-year course; the country, publishers continually others, less talented, are trained urge us to 'cut it down'; in Russia, text writers are requested to engage in exhaustive dissertations—and they are paid by the page."

#### 'REBEL DANGEROUS'

Turkevich, born in the United States of Russian parents, held that the great advances in science have come from "creative search" and that the political climate of Russia has not been conducive to such endeavors.

He asserted: "The creative man is a rebel and it has been dengerous to be a robel in Hussia, until the recent downgrading of Stalin. Now the story may

be different. The Soviet is strong in mathematics, which suffered ast modification by Marxian etrine. It is weakest in biology d biochemistry because of the rty line. It has shown some eses of genius in mathematical

lysics and has built the biggest, st and fastest electronic brain on the continent. It has one outstanding scientist in astrophysics.

"It is largely an imitator in nuclear power reactors but it will ve several in operation before e United States. Our six bil-

lion electron volt accelerator at the California Institute of Technology, with its 9,000-ton magnet, vill be dwarfed by the Soviet's billion volt machine with a 36,000-ton magnet—and they are planning another of 50 billion electron volts."